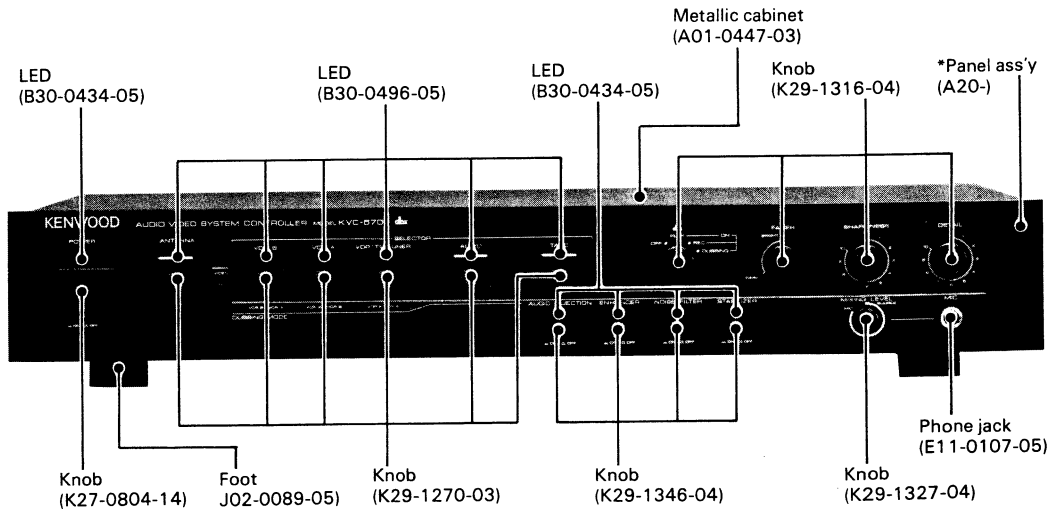
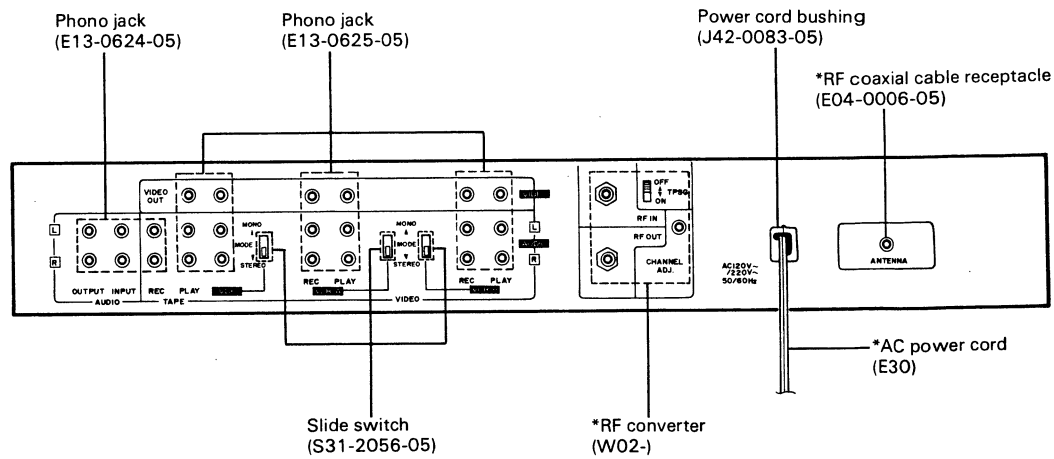
SERVICE MANUAL

KENWOOD

KVC-570

AUDIO VIDEO SYSTEM CONTROLLER



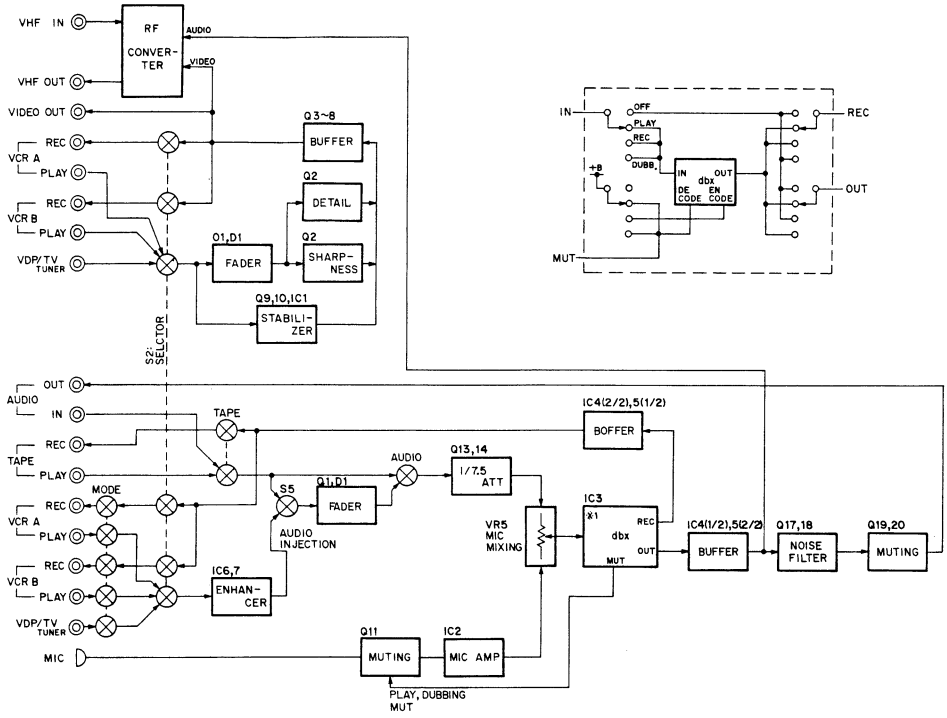


* Refer To Parts List on page 8.

Above the rear panel photo is England (PAL) & W-Germany (PAL) model.

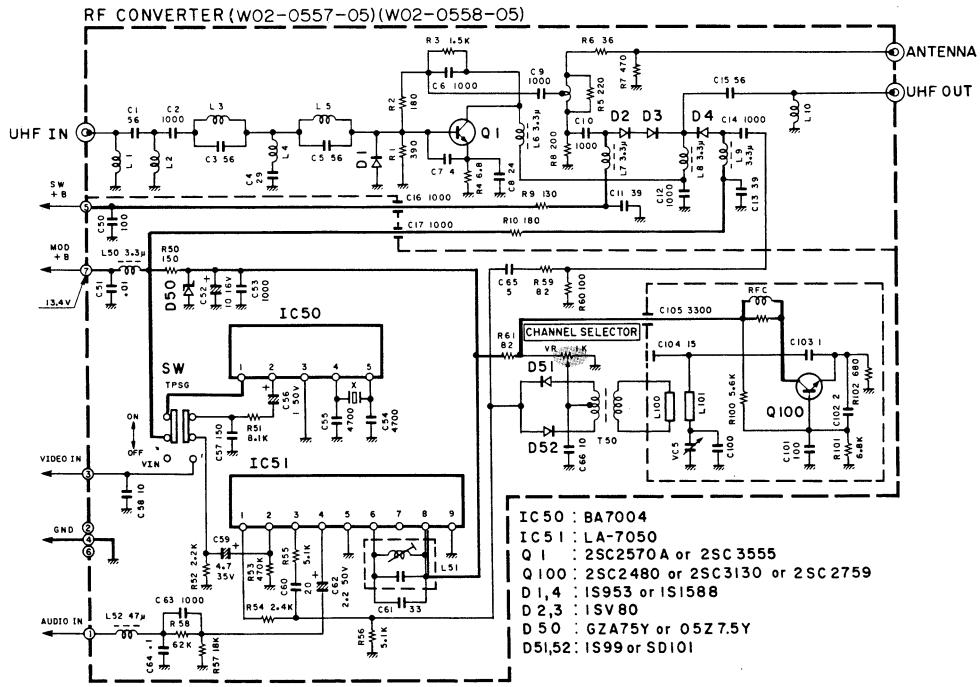
BLOCK DIAGRAM/RF CONVERTER CIRCUIT

BLOCK DIAGRAM



RF CONVERTER CIRCUIT

(W02-0557-05)
(W02-0558-05) ..... **England, W-Germany (PAL)**



CIRCUIT DESCRIPTION/RF CONVERTER CIRCUIT

1. SHARPNESS, DETAIL

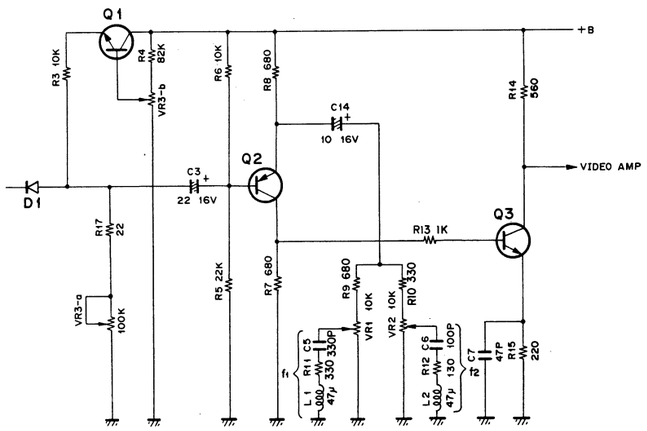


Fig. 1 FADER SHARPNESS, DETAIL CIRCUIT

As the frequency characteristics of the RLC series oscillation circuit is as shown in the figure 2, 3, the resultant emitter resistance (impedance) of Q2 changes as shown in the figure. As R7 equals R8, the gain at a point far from f0 is 0 dB and becomes maximum (R7/(R9 + R11)) at f0 (the VR and element of DETAIL circuit are ignored).
Therefore, the total frequency characteristics are as shown in the Right figure.

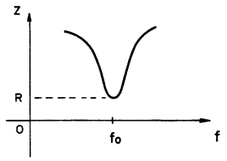


Fig. 2

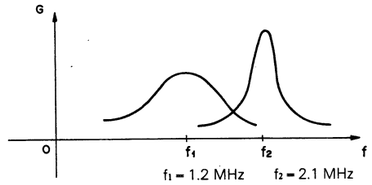
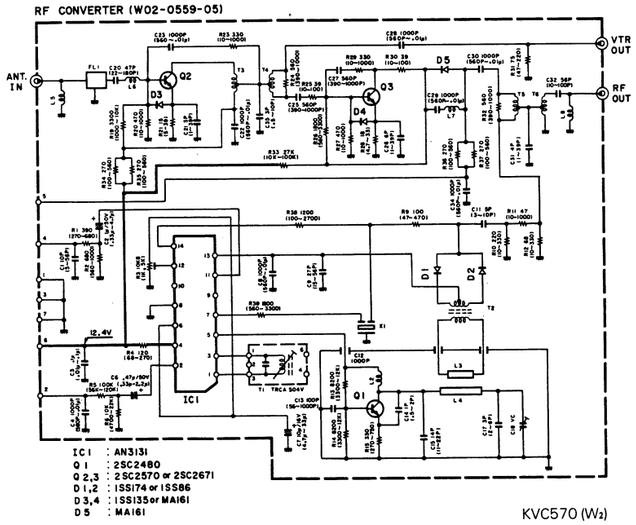


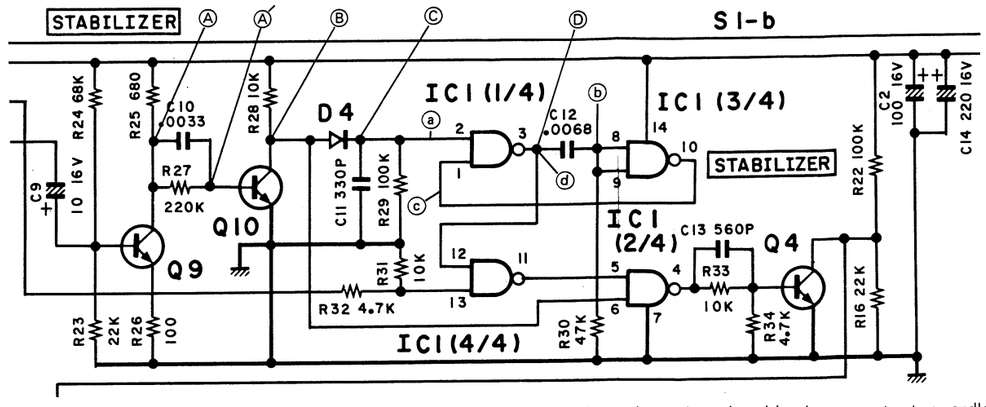
Fig. 3

(W02-0559-05) ..... France (SECAM)

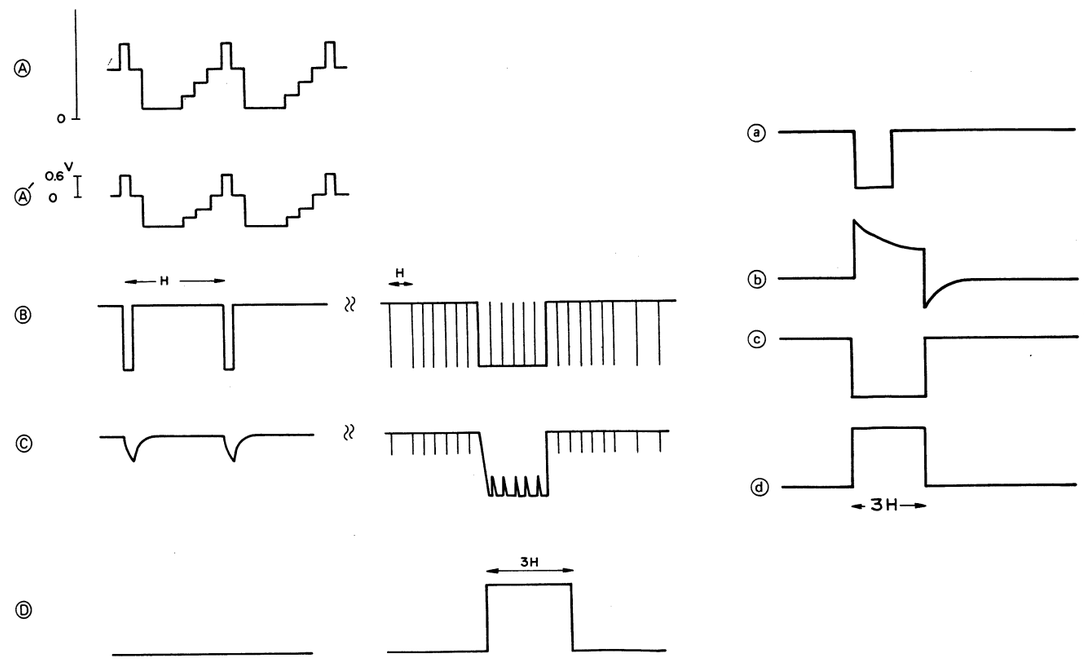


KVC570 (W_2)

2. STABILIZER



The horizontal synchro signal is always output regardless of the stabilizer ON/OFF setting.



The signal is inverted by Q9 and only synchro signal element is taken by Q10. The synchro signal is output at the collector of Q10 as shown in the figure (the horizontal axis graduation of the vertical and horizontal signals differ).
The signal is then integrated and separated by the vertical synchro separation circuit consisting of D4, C11 and R29.
When the separated vertical synchro signal is applied to IC1 (1/4), the voltage at Ⓓ becomes "H" and starts charging C12. As a result, the input of IC1 (3/4) becomes "H", the output becomes "L" and the voltage of IC1 (1/4) at Ⓓ is kept "H" (after voltage at Ⓐ returns to "H").
When the charging is carried out according to the time constant determined by C12 and R30 and input voltage ⓑ of IC1 (3/4) gradually decreases and reaches the threshold level, IC1 (3/4) and IC1 (1/4) reverse and return to the original condition. The time constant of C12 and R30 is determined so that the vertical synchro signal interval is approx. 3H.

ADJUSTMENT/REGLAGES/ABGLEICH/CIRCUIT DESCRIPTION

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	TIMMING CURRENT ADJ.	Input; Short	Connect a DC voltmeter between TP2 and TP3.	dBx: OFF	VR4	15 mV	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU AMPLI-TUNER	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1	REGLAGE DE COURANTE	Entree; Fermer de court	Connecter un voltmètre CC entre TP2 et TP3.	dBx: OFF	VR4	15 mV	(a)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	RECEIVER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	STROM EINSTELLUNG	Eingang; Kurzschließen	Einen Gleichspannungs messer zwischen den TP2 und TP3 anschließen.	dBx: OFF	VR4	15 mV	(a)

CIRCUIT DESCRIPTION

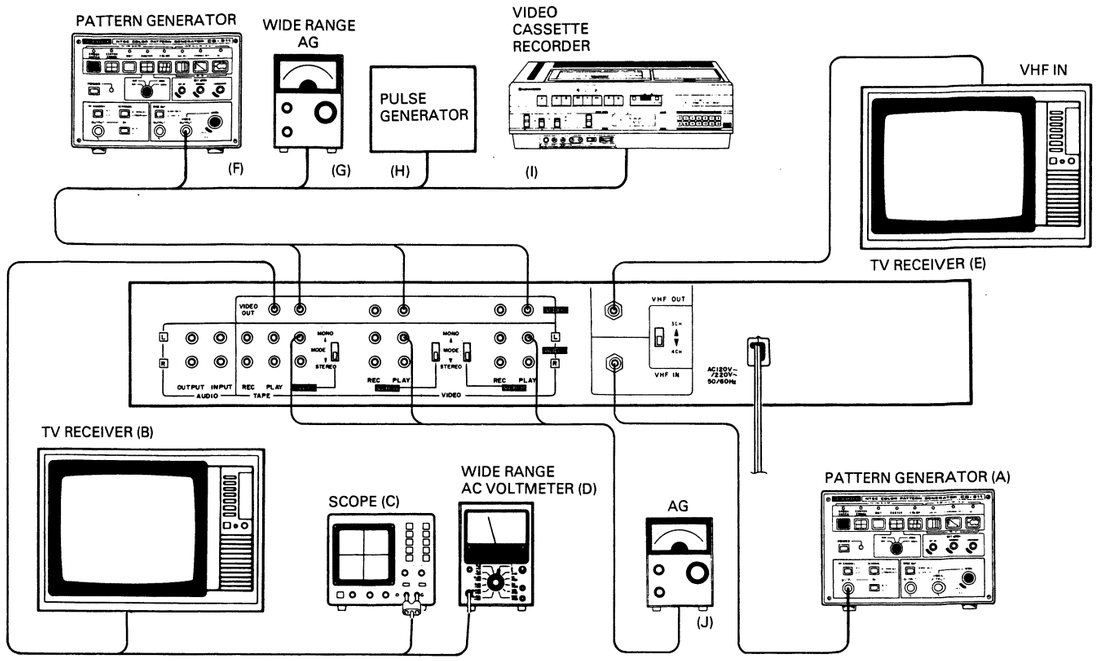
KVC-570 Video control unit (X14-1560-10) Semiconductor list

Semiconductor No.	Usage	Remarks
Q1	Fader	Controls the voltage at the cathode of diode D1.
Q2	Video signal inverted SHARPNESS', DETAIL Adj.	Nonlinear circuit with a center frequency of approx. 2.1 MHz (DETAIL)
Q3	Video signal amplifier	
Q4	Stabilizer control	
Q5	RF Amplifier	Amplifier and compensator for high frequency
Q6,7	RF Amplifier	Current amplifier for high frequency
Q8		Makes the high frequency amplifier output current constant.
Q9	Synchronize signal inverted amplifier	
Q10	Synchronize signal inverter	
Q11	Microphone muting	
Q13,14	Audio signal buffer amplifier	
Q15,16	DBX filter	
Q17,18	Noise filter control	

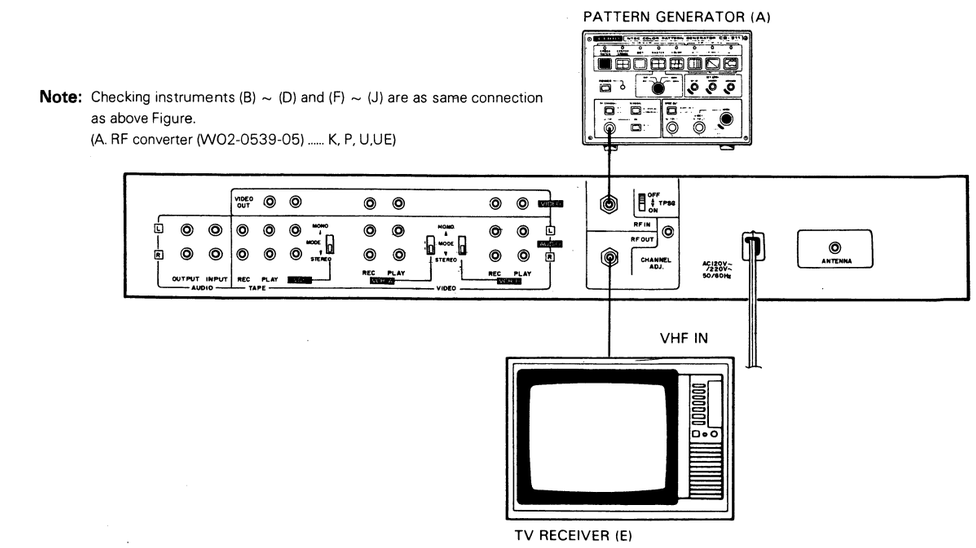
Semiconductor No.	Usage	Remarks
Q19,20	Audio output muting	
Q21	Q31, 32 controller	
Q22	Q19, 20 controller	
Q23	Q35, 36 controller	
Q24	Q33, 34 controller	
Q25	Regulated voltage circuit for RF converter	+12V regulated voltage circuit
Q26,27,28	Regulated voltage circuit	+12V regulated voltage circuit
Q29	Q22 controller	
Q31,32	Muting control circuit	Muting control for TAPE REC OUT
Q33,34	Muting control circuit	Muting control for VCR A AUDIO REC OUT
Q35,36	Muting control circuit	Muting control for VCR B AUDIO REC OUT
IC1	Stabilizer circuit	One shot multi-vibrator
IC2	Mic amplifier	
IC3	dBX	
IC4,5	Buffer amplifier	
IC6,7	Phase shifter	1st ~ 4th. pahse shifter for enhancer

CHECKING PROCEDURE

A. RF converter (W02-0539-05) ..... K, P, U, UE



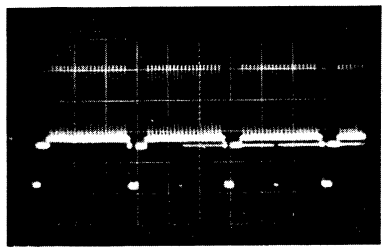
B. RF converter (W02-0557-05) ..... England PAL
(W02-0558-05) ..... W-Germany PAL
(W02-0559-05) ..... France SECAM



Note: Checking instruments (B) ~ (D) and (F) ~ (J) are as same connection as above Figure.
(A. RF converter (W02-0539-05) ..... K, P, U,UE)

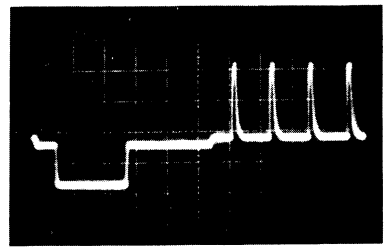
CHECKING PROCEDURE

①



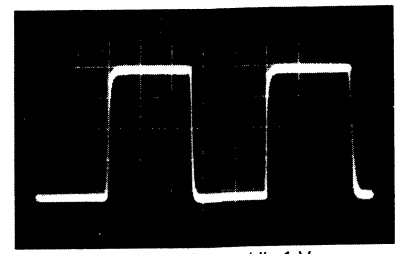
NORMAL (0) 20 μsec/div 1 Vp-p

③



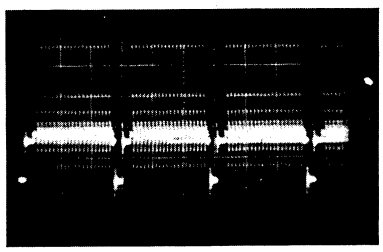
NORMAL (0) 2 μsec/div 1 Vp-p

⑤



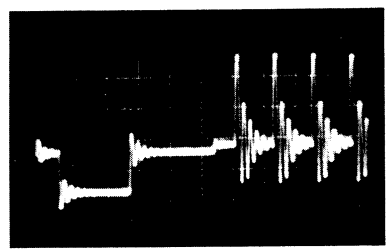
NORMAL (0) 2 μsec/div 1 Vp-p

②



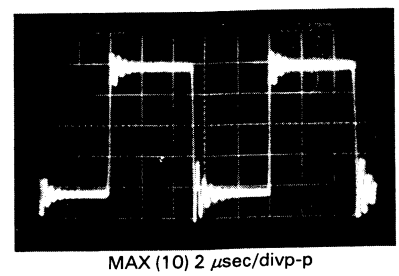
MAX (10) 20 μsec/divp-p

④



MAX (10) 2 μsec/divp-p

⑥



MAX (10) 2 μsec/divp-p

1. Checking the RF converter

Connect a pattern generator or a video cassette recorder to the input terminal of the KVC-570 and connect a TV set to the VHF-OUT terminal. Check the TV screen for image abnormality. Connect an audio generator to the input terminal and check audio quality through the speaker of the TV set.

Input setting: (F), (I) or (A)
Output setting: (E):

2. Checking the sharpness & detail

Methods for checking the sharpness & detail circuit are described below. Use of methods (a) and (b) may be used if measuring instruments are not available.

(a) Input setting: (G)
Output setting: (D)
Measure the frequency response of the sharpness & detail circuit with the sharpness & detail knobs' VR1 and VR2 set to 0 – 10.
SHARPNESS: About 5 dB above the Sharpness gain maximum (10) around 1.2 MHz.
DETAIL: About 8 dB above the Detail gain maximum (10) around 2.1 MHz.

(b) Input setting: (F)
Output setting: (C)
Generate a cross hatch signal with the pattern generator and check the oscilloscope to confirm that the waveform varies as the control setting is varied between 0 – 10. (See the photos ① ~ ④.)

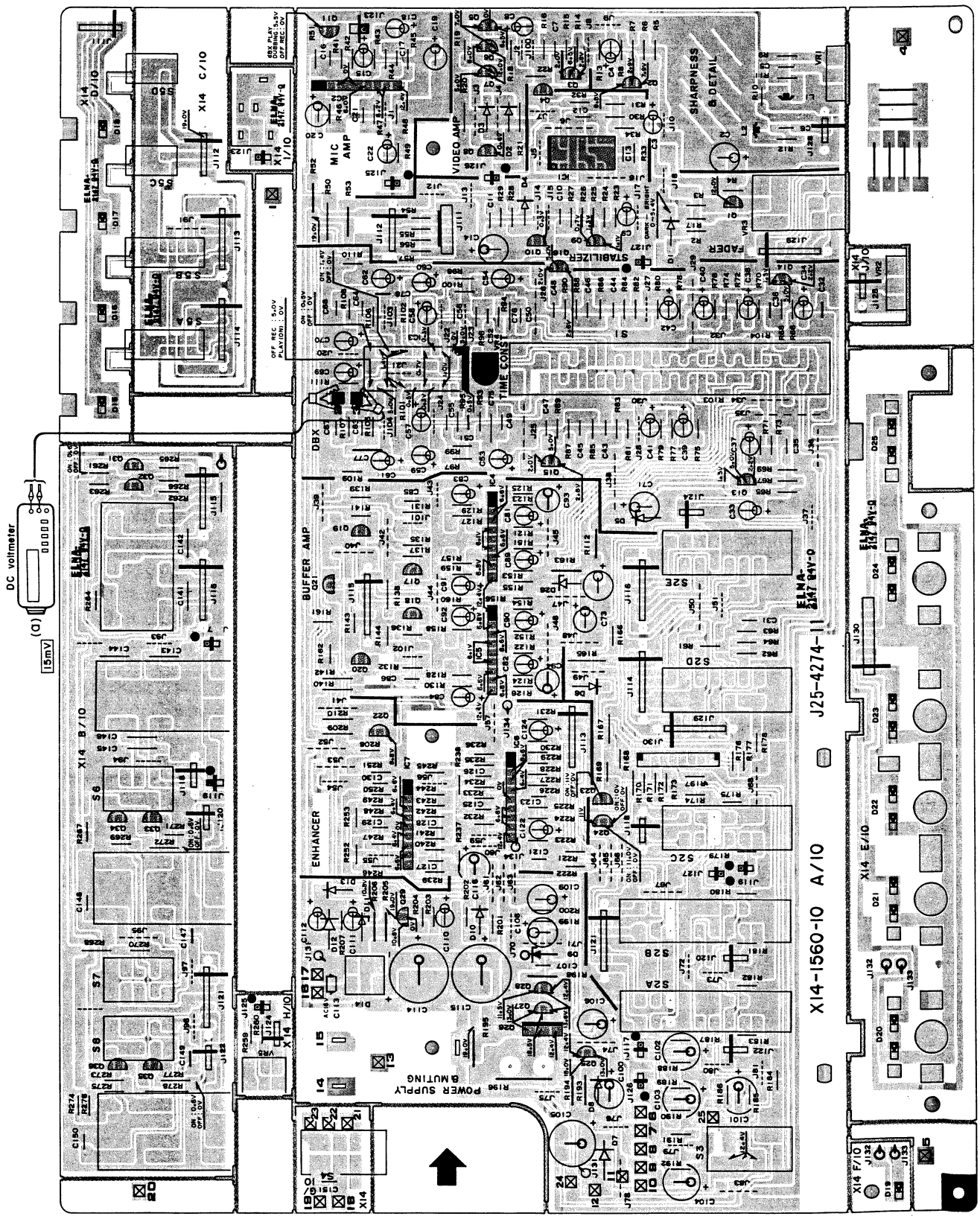
(c) Input setting: (I) or (F)
Output setting: (B)
Confirm that the image quality varies between 0 – 10 as the control setting is varied.

(d) Input setting: (H)
Output setting: (C)
Apply a pulse signal with a frequency of more than 100 kHz and confirm that the pulse waveform varies as the control is varied between 0 – 10. (See the photos ⑤, ⑥.)

PC BOARD

VIDEO CONTROL UNIT (X14-1560-10)

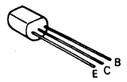
Component side view



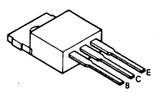
KENWOOD

AUDIO VIDEO SYSTEM CONTROLLER

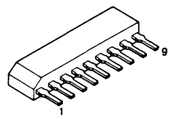
2SA1127NC
2AS733
2SA999
2SB774
2SC1360
2SC1685
2SC1845
2SC1923
2SC2003
2SC2320
2SC2878
2SC945
2SD863



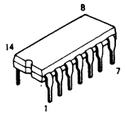
2SC2167



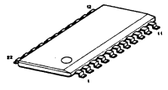
AN6555
AN6555F

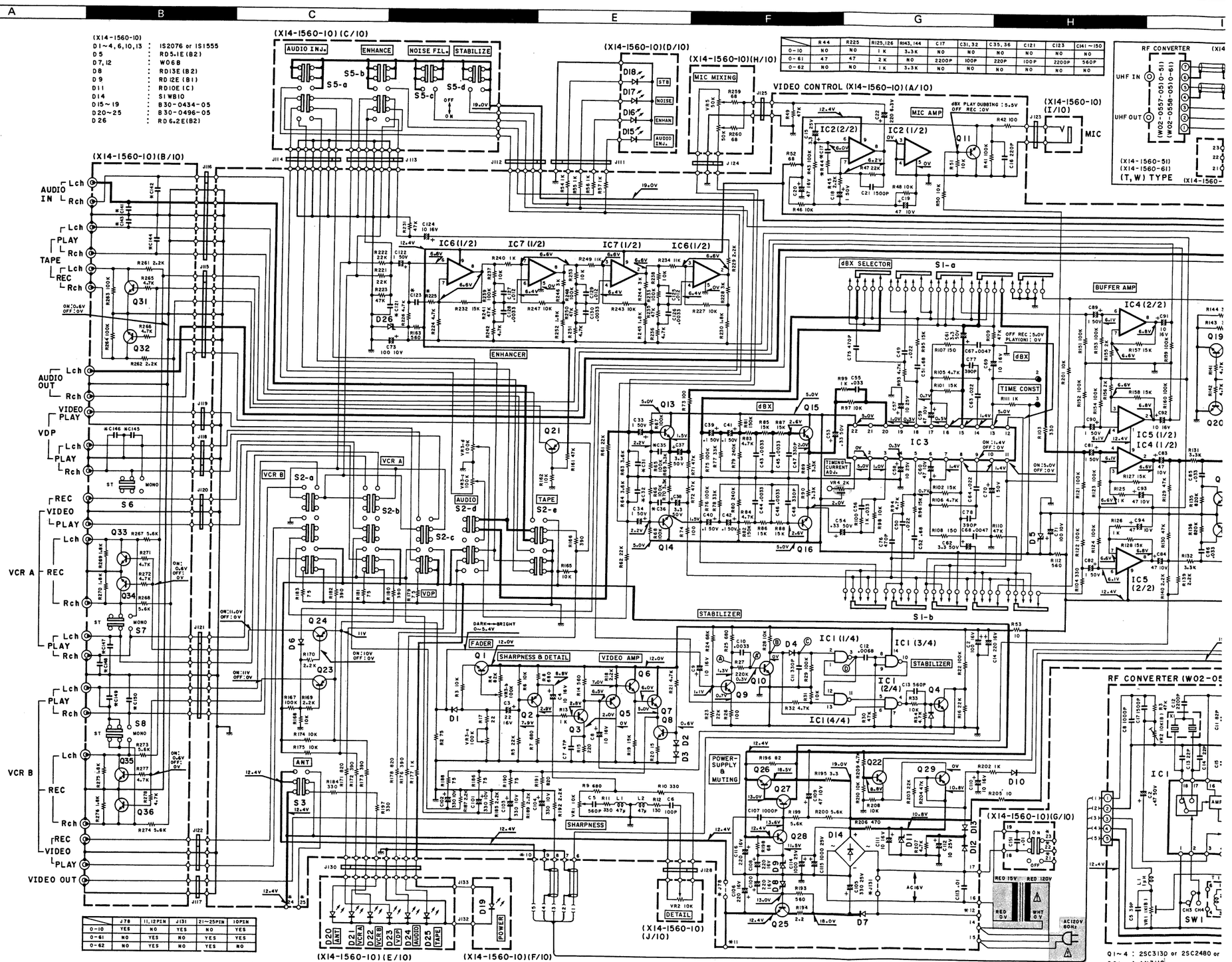


UPD4011BC



AN6291





	R44	R225	R125,126	R143,144	C17	C31,32	C35,36	C121	C123	C141~150
0-10	NO	NO	1K	3.3K	NO	NO	NO	NO	NO	NO
0-61	47	47	2K	NO	2200P	100P	220P	100P	2200P	560P
0-62	NO	NO	1K	3.3K	NO	NO	NO	NO	NO	NO

	J78	11,12PIN	J131	21~25PIN	10PIN
0-10	YES	NO	YES	NO	YES
0-61	NO	YES	NO	YES	YES
0-62	NO	YES	NO	YES	NO

AUDIO VIDEO SYSTEM CONTROLLER

KVC-570

SPECIFICATIONS

[Video Section]

Video Input Sensitivity/Impedance	1.0 Vp-p/75 ohms unbalanced
Video Output Level/Impedance	1.0 Vp-p/75 ohms unbalanced
Signal to Noise Ratio (Video Signal)	
VCR A, VCR B, VDP → Video Out	62 dB
Frequency Response (Video Signal)	6.5 Hz ~ 10 MHz, 0 ± 2 dB
Audio Input Sensitivity/Impedance	–6 dBs/47 kohms
Audio Output Level/Impedance	–20 dBs/47 kohms
Signal to Noise Ratio (IHF-A)	
VCR B, VDP → VCR A REC	80 dB
VCR A, VCR B, VDP → Audio Out	80 dB
Frequency Response	
VCR B, VDP → VCR A REC	20 Hz ~ 100 kHz, –3 dB
VCR A, VCR B, VDP → Audio Out	10 Hz ~ 100 kHz, –3 dB

VHF Output Signal

NTSC Area	Channel 3 or 4 switchable (Preset channel 3 when shipped)

[Audio Section]

Input Sensitivity/Impedance	
Audio In, Tape Play	150 mV/47 kohms
Signal to Noise Ratio	
Audio In, Tape Play → Audio Out	80 dB
Mic → Audio Out	65 dB
Frequency Response	
Audio In, Tape Play → Audio Out	10 Hz ~ 100 kHz, –3 dB
Output Level/Impedance	150 mV/2 kohms
Maximum Output Level	1.3V
Total Harmonic Distortion	
Audio In, Tape Play → Audio Out	Less than 0.05%
Noise Filter	3 kHz, 6 dB/oct
dbx Noise Reduction Effect	–30 dB at 1 kHz

[General]

Power Requirements	AC 110-120/220-240V (switchable), 50/60 Hz
Power Consumption	10 W
Dimensions	W: 440 mm (17-5/16") H: 77 mm (3-1/32") D: 320 mm (12-19/32")
Weight (Net)	4.2 kg (9.2 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

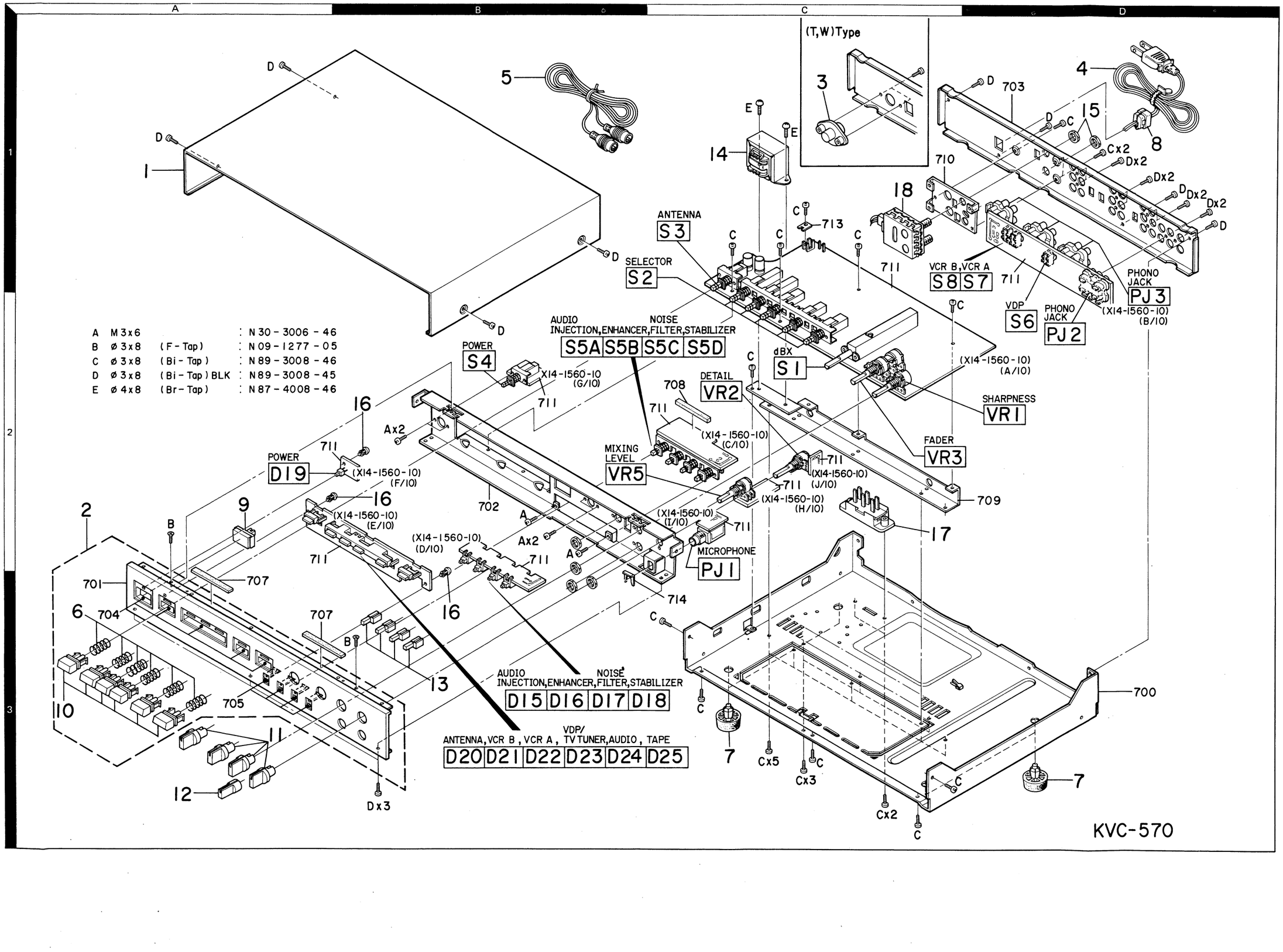
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KVC-570 KVC-570

EXPLODED VIEW

Note: Exploded view No. larger than 700 are not supplied.



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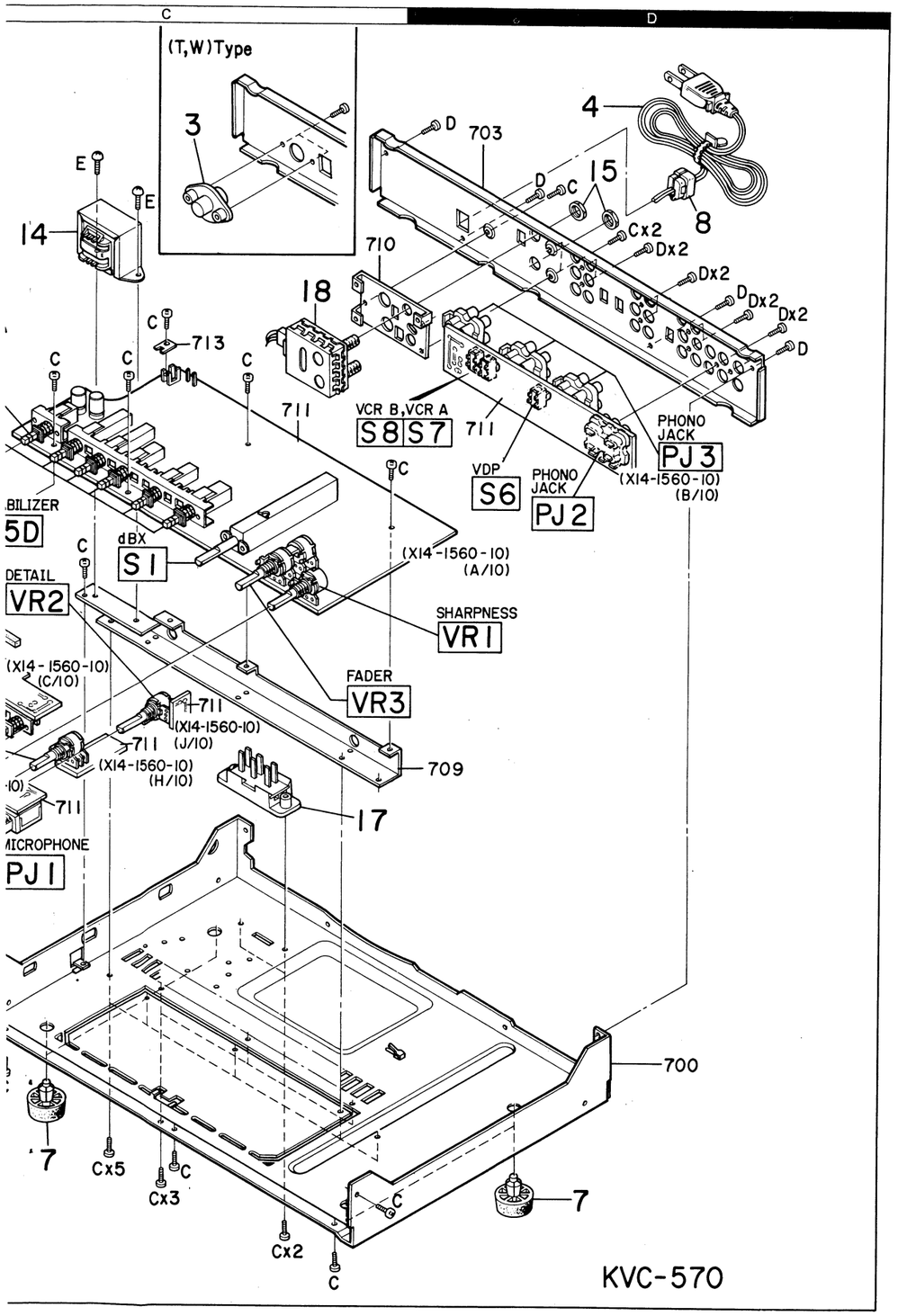
Note: Exploded view No. larger than 700 are not supplied.



PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articlés non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KVC-570 (UNIT)						
1	1A		A01-0447-03	METALLIC CABINET		
2	2A	*	A20-3565-03	PANEL ASSY	KPUUE	
2	2A	*	A20-3565-03	PANEL ASSY	W	
2	2A	*	A20-3653-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	W	
-		*	B50-4787-00	INSTRUCTION MANUAL	KPUUE	
-		*	B50-4788-00	INSTRUCTION MANUAL	P	
-		*	B50-4789-00	INSTRUCTION MANUAL	W	
-		*	B50-4790-00	INSTRUCTION MANUAL	T	
-			B58-0223-04	CAUTION CARD	U	
-			B58-0245-23	CAUTION CARD	W	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD	UEW	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
3	1B		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	TW	
⚠ 4	1C		E30-0181-05	AC POWER CORD	KP	
⚠ 4	1C		E30-0459-05	AC POWER CORD	W	
⚠ 4	1C		E30-0587-15	AC POWER CORD	T	
⚠ 4	1C		E30-0812-05	AC POWER CORD	UUE	
5	1B		E30-0714-15	CORD WITH PLUG	KPUUE	
5	1B		E30-0750-05	CORD WITH PLUG (PAL)	T	
5	1B	*	E30-0854-05	CORD WITH PLUG (SECAM)	W	
6	2A		G01-0488-04	COMPRESSION SPRING		
-		*	H01-4802-04	ITEM CARTON CASE	KPUUE	
-		*	H01-4802-04	ITEM CARTON CASE	W	
-		*	H01-4854-04	ITEM CARTON CASE	T	
-			H10-1538-13	POLYSTYRENE FOAMED FIXTURE		
-			H20-0452-04	PROTECTION COVER(450X230X350)		
-			H25-0078-04	PROTECTION BAG (235X315)		
7	2B,2C		J02-0089-05	FOOT		
⚠ 8	1C		J42-0083-05	POWER CORD BUSHING		
9	2A		K27-0804-14	KNOB (LEVER)...POWER X1		
10	2A		K29-1270-03	KNOB (SELECTOR)		
11	2A	*	K29-1316-04	KNOB ..DBX,FADER,SHARP,DITAIL		
12	2A		K29-1327-04	KNOB ..MIXING LEVEL		
13	2B	*	K29-1346-04	KNOB ..A.I,EHCER,N.FIL,STABI		
⚠ 14	1B	*	L01-3361-05	POWER TRANSFORMER	KP	
⚠ 14	1B	*	L01-3364-05	POWER TRANSFORMER	UUET	
⚠ 14	1B	*	L01-3364-05	POWER TRANSFORMER		
15	1C	*	N14-0141-05	HEXAGON NUT (RF CONVERTER)	KPUUE	
16	2A,2B		N29-0211-05	PUSH RIVET		
⚠ 17	2C		S31-2053-05	SLIDE SWITCH (POWER TYPE)	UUE	
18	1C		W02-0539-05	RF CONVERTER ..NTSC	KPUUE	
18	1C	*	W02-0557-05	RF CONVERTER ..ENG.PAL	T	

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18	1C	*	W02-0558-05	RF CONVERTER .. PAL (W-Germany)	W	
18	1C	*	W02-0559-05	RF CONVERTER .. SECAM (France)	W	
VIDEO CONTROL UNIT (X14-1560-10)						
D15 -19	2B		B30-0434-05	LED (A.I,EHCER,N.FIL,ST,POWER)		
D20 -25	2B		B30-0496-05	LED (ANTENNA,SELECTOR)		
C2			CE04FW1C101M	ELECTRO 100UF 16WV		
C3			CE04FW1C220M	ELECTRO 22UF 16WV		
C4			CE04FW1C100M	ELECTRO 10UF 16WV		
C5			CK45FB1H331K	CERAMIC 330PF K		
C6			CC45FSL1H101J	CERAMIC 100PF J		
C7			CC45FSL1H470J	CERAMIC 47PF J		
C8 ,9			CE04FW1C100M	ELECTRO 10UF 16WV		
C10			CF92FV1H332J	MF 3300PF J		
C11			CC45FSL1H331J	CERAMIC 330PF J		
C12			CF92FV1H682J	MF 6800PF J		
C13			CK45FB1H561K	CERAMIC 560PF K		
C14			CE04FW1C221M	ELECTRO 220UF 16WV		
C15			CE04GW1E3R3M	LL-ELEC 3.3UF 25WV		
C16			CC45FSL1H221J	CERAMIC 220PF J		
C17			CF92FV1H222J	MF 2200PF J	T	
C18			CE04FW1H010M	ELECTRO 1UF 50WV		
C19			CE04FW1A470M	ELECTRO 47UF 10WV		
C20			CE04FW1C470M	ELECTRO 47UF 16WV		
C21			CF92FV1H152J	MF 1500PF J		
C22			CE04FWOJ221M	ELECTRO 220UF 6.3WV		
C31			CC45FSL1H101J	CERAMIC 100PF J	T	
C32			CC45FSL1H101J	CERAMIC 100PF J	T	
C33 ,34			CE04FW1H010M	ELECTRO 1UF 50WV		
C35			CC45FSL1H221J	CERAMIC 220PF J	T	
C36			CC45FSL1H221J	CERAMIC 220PF J	T	
C37 ,38			CE04FW1H3R3M	ELECTRO 3.3UF 50WV		
C39 -42			CE04FW1HR10M	ELECTRO 0.10UF 50WV		
C43 -46			CF92FV1H332J	MF 3300PF J		
C47 ,48			CC45FSL1H331J	CERAMIC 330PF J		
C49 ,50			CF92FV1H223J	MF 0.022UF J		
C51 ,52		*	CF92FV1H684J	MF 0.68UF J		
C53 ,54			CE04FW1HR33M	ELECTRO 0.33UF 50WV		
C55 ,56			CF92FV1H333J	MF 0.033UF J		
C57 ,58			CE04GW1E100M	LL-ELEC 10UF 25WV		
C59 ,60			CE04GW1C470M	LL-ELEC 47UF 16WV		
C61 ,62			CE04FW1H3R3M	ELECTRO 3.3UF 50WV		
C63 ,64			CF92FV1H223J	MF 0.022UF J		
C65 ,66			CF92FV1H103J	MF 0.010UF J		
C67 ,68			CF92FV1H472J	MF 4700PF J		
C69			CE04FW1C100M	ELECTRO 10UF 16WV		
C70			CE04FW1H010M	ELECTRO 1UF 50WV		
C71			CE04FW1A101M	ELECTRO 100UF 10WV		
C73			CE04FW1A101M	ELECTRO 100UF 10WV		
C75 ,76			CK14B1H471K	CERAMIC 470PF K		
C77			CK14B1H391K	CERAMIC CAPACITOR (TYPE 2)		
C78		*	CK45FB1H391K	CERAMIC 390PF K		
C81 ,82			CE04FW1H010M	ELECTRO 1UF 50WV		
C83 ,84			CE04FW1A470M	ELECTRO 47UF 10WV		
C85 ,86			CF92FV1H333J	MF 0.033UF J		

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C89 ,90			CE04FW1H010M	ELECTRO 1UF 50WV		
C91 ,92			CE04FW1C100M	ELECTRO 10UF 16WV		
C93 ,94			CE04FW1A470M	ELECTRO 47UF 10WV		
C100			CE04W1C221M	ELECTRO 220UF 16WV		
C101-104			CE04W1A331M	ELECTRO 330UF 10WV		
C105			CE04FW1E331M	ELECTRO 330UF 25WV		
C106			CE04FW1C221M	ELECTRO 220UF 16WV		
C107			CK45FB1H102K	CERAMIC 0.001UF K		
C108			CE04W1C221M	ELECTRO 220UF 16WV		
C109			CE04FW1A470M	ELECTRO 47UF 10WV		
C110,111			CE04FW1C100M	ELECTRO 10UF 16WV		
C112			CE04FW1E100M	ELECTRO 10UF 25WV		
C113			CK45FF1H103Z	CERAMIC 0.01UF Z		
C114,115			CE04FW1E102M	ELECTRO 1000UF 25WV		
C116			CE04W1C221M	ELECTRO 220UF 16WV		
C121			CC45FSL1H101J	CERAMIC 100PF J	T	
C122			CE04FW1H010M	ELECTRO 1UF 50WV		
C123			CF92FV1H222J	MF 2200PF J	T	
C124			CE04FW1C100M	ELECTRO 10UF 16WV		
C125			CF92FV1H123J	MF 0.012UF J		
C126			CF92FV1H332J	MF 3300PF J		
C127			CF92FV1H123J	MF 0.012UF J		
C128			CF92FV1H332J	MF 3300PF J		
C129			CF92FV1H123J	MF 0.012UF J		
C130			CF92FV1H332J	MF 3300PF J		
C141-146			CK14B1H561K	CERAMIC 560PF K	T	
C147			CK45FB1H561K	CERAMIC 560PF K	T	
C148			CK45FB1H561K	CERAMIC 560PF K	T	
C149			CK45FB1H561K	CERAMIC 560PF K	T	
C150			CK45FB1H561K	CERAMIC 560PF K	T	
C151			CK45FF1H103Z	CERAMIC 0.01UF Z		
PJ1	2B		E11-0107-05	PHONE JACK (MICROPHONE)		
PJ2	1C	*	E13-0624-05	PHONO JACK (AUDIO,TAPE/REC)		
PJ3	1C	*	E13-0625-05	PHONO JACK (VDP,VCR A,VCR B)		
L1 ,2			L40-4705-25	SMALL FIXED INDUCTOR		
R2		*	RD14BB2C750J	RD 75 J 2C		
R11 ,12		*	RD14BB2C131J	RD 130 J 2C		
R17		*	RD14BB2C220J	RD 22 J 2C		
R52		*	RD14AB2E680J	FL-PROOF RD 68 J 2E		
R53		*	RD14AB2E100J	FL-PROOF RD 10 J 2E		
R79 ,80		*	RD14BB2C244J	RD 240K J 2C		
R81 ,82		*	RD14BB2C154J	RD 150K J 2C		
R112		*	RD14AB2E561J	FL-PROOF RD 560 J 2E		
R163		*	RD14AB2E561J	FL-PROOF RD 560 J 2E		
R179		*	RD14BB2C750J	RD 75 J 2C		
R181		*	RD14BB2C750J	RD 75 J 2C		
R183		*	RD14BB2C750J	RD 75 J 2C		
R186		*	RD14BB2C750J	RD 75 J 2C		
R188		*	RD14BB2C750J	RD 75 J 2C		
R190		*	RD14BB2C750J	RD 75 J 2C		
R193		*	RD14AB2E561J	FL-PROOF RD 560 J 2E		
R194		*	RD14AB2E2R2J	FL-PROOF RD 2.2 J 2E		
R195			RD14GB2H3R3J	FL-PROOF RD 3.3 J 2H		

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R196			RS14GB3D820J	FL-PROOF RS 82 J 3D		
R198			RD14GB2E680J	FL-PROOF RD 68 J 2E		
R205		*	RD14AB2E100J	FL-PROOF RD 10 J 2E		
R206			RD14GB2E471J	FL-PROOF RD 470 J 2E		
VR1	1C	*	RO1-3029-05	POT. (SHARPNESS) 10K		
VR2	1B	*	RO1-3030-05	POT. (DETAIL) 10K		
VR3	2C	*	R11-5016-05	POT. (FADER) 100K X4		
VR4			R12-1313-05	TRIMMING POT. (CONT.)2K ﾌﾟ		
VR5	2B	*	R10-4014-05	POT. (MIC MIXING) 50K X2		
S1	1B	*	S29-1136-05	ROTARY SLIDE SWITCH (DBX)		
S2	1B	*	S42-5038-05	MULTIPLE PUSH SWITCH(SEL.)		
S3	1B		S40-2146-05	PUSH SWITCH (ANTENNA)		
S4	1B		S40-2173-05	PUSH SWITCH (POWER)		
S5A-D	1B	*	S42-4036-05	MULTI.PUSH SW.(A.I,EHC,N.F,ST)		
S6 -8	1C		S31-2056-05	SLIDE SW. (VDP,VCR A,VCR B)		
			2SC1685(R,S)	TRANSISTOR		
			2SC2320(E,F)	TRANSISTOR		
D1 -4			1S1555	DIODE		
D1 -4			1S2076	DIODE		
D5			RD5.1E(B2)	ZENER DIODE		
D6			1S1555	DIODE		
D6			1S2076	DIODE		
D7			W06B	DIODE		
D8			RD13E(B2)	ZENER DIODE		
D9		*	RD12E(B1)	ZENER DIODE		
D10			1S1555	DIODE		
D10			1S2076	DIODE		
D11		*	RD10E(C)	ZENER DIODE		
D12			W06B	DIODE		
D13			1S1555	DIODE		
D13			1S2076	DIODE		
D14			S1WB10	DIODE		
D26			RD6.2E(B2)	ZENER DIODE		
IC1			UPD4011BC	IC		
IC2			AN6555F	IC		
IC3		*	AN6291	IC		
IC4 -7			AN6555	IC		
Q1			2SC945(A)(Q,P)	TRANSISTOR		
Q2			2SA1127NC(R,S)	TRANSISTOR		
Q2			2SA733(A)(Q,P)	TRANSISTOR		
Q2			2SA999(E,F)	TRANSISTOR		
Q3			2SC1923	TRANSISTOR		
Q4			2SC945(A)(Q,P)	TRANSISTOR		
Q5			2SA1127NC(R,S)	TRANSISTOR		
Q5			2SA733(A)(Q,P)	TRANSISTOR		
Q5			2SA999(E,F)	TRANSISTOR		
Q6			2SC1923	TRANSISTOR		
Q7			2SC1360	TRANSISTOR		
Q8			2SC2003(L,K)	TRANSISTOR		
Q9 ,10			2SC945(A)(Q,P)	TRANSISTOR		
Q11			2SC2878	TRANSISTOR		
Q13 -16			2SC1845(F,E)	TRANSISTOR		
Q17 -20			2SC945(A)(Q,P)	TRANSISTOR		
Q21			2SA1127NC(R,S)	TRANSISTOR		

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Q21			2SA733(A)(Q,P)	TRANSISTOR		
Q21			2SA999(E,F)	TRANSISTOR		
Q22 -24		*	2SB774(R,S)	TRANSISTOR		
Q25			2SD863	TRANSISTOR		
Q26			2SC2167	TRANSISTOR		
Q27 ,28			2SC945(A)(Q,P)	TRANSISTOR		
Q29			2SA1127NC(R,S)	TRANSISTOR		
Q29			2SA733(A)(Q,P)	TRANSISTOR		
Q29			2SA999(E,F)	TRANSISTOR		
Q31 -36			2SC945(A)(Q,P)	TRANSISTOR		
RF CONVERTER (W02-539) ..... K, P, U, UE						
D1 ,2			1S110	DIODE		
IC1			AN3110	IC		
Q1 ,4			2SC2480	TRANSISTOR		
Q1 ,4			2SC2712	TRANSISTOR		
Q1 ,4			2SC2735	TRANSISTOR		
Q1 ,4			2SC3130	TRANSISTOR		
RF CONVERTER (W02-557, 558) ..... T, W (PAL)						
X1			CSB500E5	XTAL		
D1			1S1588	DIODE		
D1			1S953	DIODE		
D2 ,3			1SV80	DIODE		
D4			1S953	DIODE		
D50			GZA7.5Y	ZENER DIODE		
D50			05Z7.5Y	ZENER DIODE		
D51 ,52			SD101	DIODE		
D51 ,52			1SS99	DIODE		
IC50			BA7004	IC		
IC51			LA7050	IC		
TR1			2SC2570A	TRANSISTOR		
TR1			2SC3555	TRANSISTOR		
TR100			2SC2480	TRANSISTOR		
TR100			2SC2759	TRANSISTOR		
TR100			2SC3130	TRANSISTOR		
RF CONVERTER (W02-559) ..... W (SECAM)						
FL1			BEF10830	FILTOR		
X1			SFE6R5MB14	XTAL		
D1 ,2			1SS174	DIODE		
D1 ,2			1SS86	DIODE		
D3 ,4			MA161	DIODE		
D3 ,4			1SS135	DIODE		
D5			MA161	DIODE		
Q1			2SC2480	TRANSISTOR		
Q2 ,3			2SC2570	TRANSISTOR		
Q2 ,3			2SC2671	TRANSITOR		

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